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Synthesis, structure, and properties of nitronyl nitroxyl tetraradical with calix[4]arene framework

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Abstract

A reaction of calix[4]arene tetraaldehyde with 2,3-bis(hydroxyamino)-2,3- dimethylbutane in DMF resulted in the corresponding 1,3-dihydroxyimidazolidine tetraadduct, whose oxidation gave a calix[4]arene (1,3-alternate) bearing four nitronyl nitroxyl-containing substituents at the upper rim. © 2013 Springer Science+Business Media New York.

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Keywords

calixarenes, magnetic properties, nitronyl nitroxyls, tetraradicals